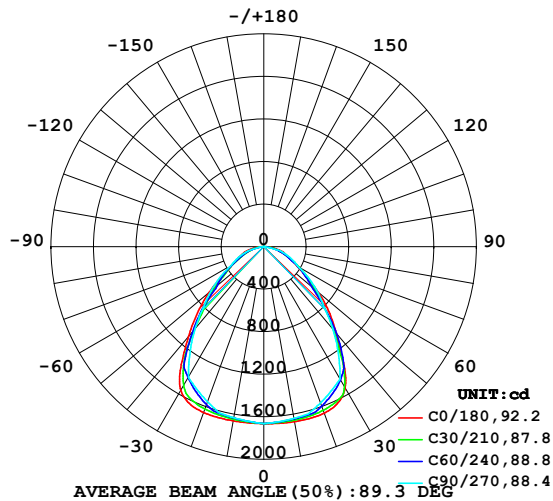


LUMINAIRE PHOTOMETRIC TEST REPORT

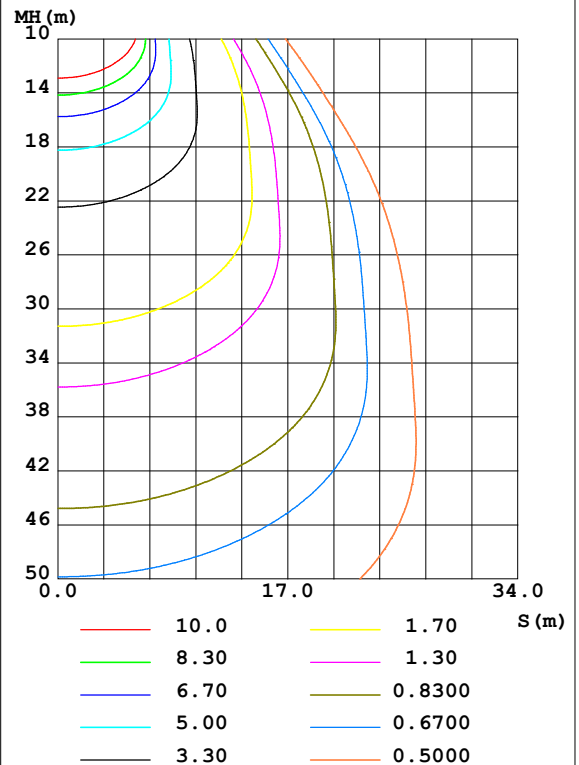
Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.05 lm/W			
MODEL		I _{max} (cd)	1673	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3609.7	□ UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	3609.72	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	□ down(%)	100.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1671	1651	1640	1645	1663	1640	1633	1646	0- 10	157.8	157.8	4.37,4.37
20	1665	1632	1563	1620	1659	1613	1551	1623	10- 20	462.8	620.6	17.2,17.2
30	1532	1454	1436	1440	1561	1435	1418	1433	20- 30	715.5	1336	37,37
40	1059	1008	1013	1029	1100	1020	1004	978.8	30- 40	789.7	2126	58.9,58.9
50	670.4	574.7	658.3	580.3	671.7	572.9	649.2	559.2	40- 50	621.7	2748	76.1,76.1
60	359.6	335.4	370.8	328.0	340.4	320.6	353.9	324.4	50- 60	429.2	3177	88,88
70	221.4	199.4	229.4	187.8	218.1	176.2	214.2	188.3	60- 70	274.6	3451	95.6,95.6
80	106.2	65.83	0	60.10	103.0	52.43	0	59.27	70- 80	143.7	3595	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	14.70	3610	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2463.6 lm

%lum = 68.2%

%lamp = 68.2%

Conical surface Flux(120deg): 3176.7 lm

%lum = 88.0%

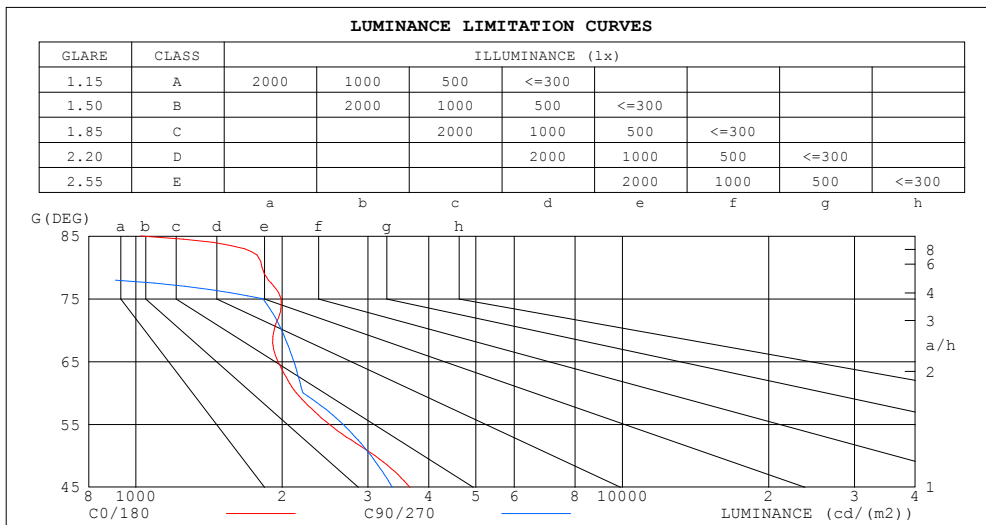
%lamp = 88.0%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1023	0
80	1819	0
75	1990	1824
70	1925	1994
65	1962	2113
60	2138	2205
55	2499	2667
50	3100	3044
45	3658	3369

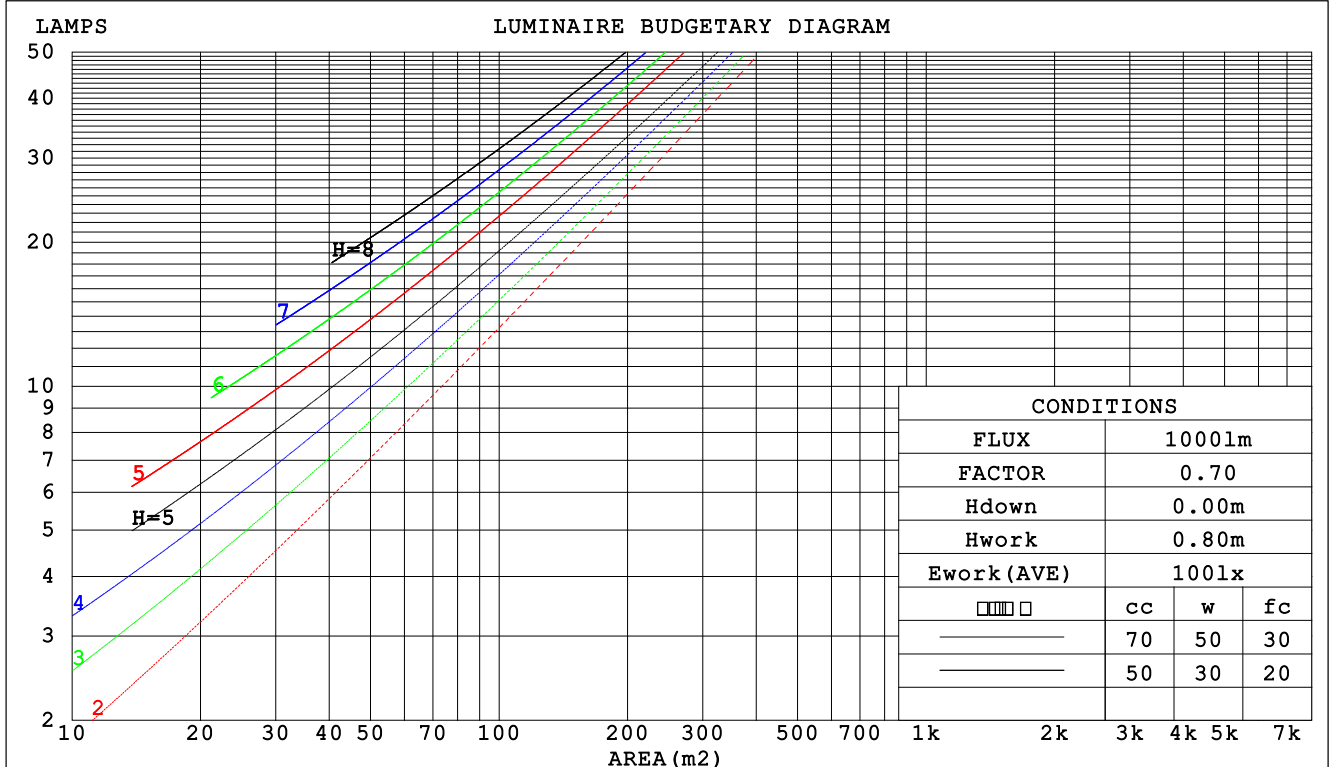
H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-08-18

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:7.500m [K=1.0667]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

WEC AND CCEC

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm					
NAME: GLM-SPL12030-27W-D			TYPE:LED		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:1
MFR.: EVERFINE			SUR.:		Shielding Angle:

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.258	.147	.046	.251	.143	.045	.238	.136	.044	.226	.130	.042	.215	.125	.040		
2.0	.249	.136	.042	.243	.134	.041	.232	.129	.040	.221	.124	.039	.211	.120	.038		
3.0	.235	.125	.037	.229	.123	.037	.219	.119	.036	.210	.115	.035	.202	.112	.035		
4.0	.220	.114	.034	.215	.113	.033	.206	.109	.033	.198	.106	.032	.191	.104	.032		
5.0	.206	.105	.030	.202	.104	.030	.194	.101	.030	.187	.099	.029	.180	.096	.029		
6.0	.193	.097	.028	.189	.096	.028	.182	.094	.027	.176	.091	.027	.170	.090	.027		
7.0	.181	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025		
8.0	.171	.083	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023		
9.0	.161	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.073	.021		
10.0	.153	.073	.020	.150	.073	.020	.146	.071	.020	.142	.070	.020	.138	.069	.020		

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.151	.134	.119	.103	.092	.082	.060	.054	.048	.019	.017	.016	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.063	.128	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.142	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.077	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm										
NAME: GLM-SPL12030-27W-D					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: EVERFINE					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	15.7	17.0	15.9	17.2	17.4	15.6	16.9	15.8	17.1	17.3
3H	16.7	17.9	17.0	18.2	18.4	16.7	18.0	17.0	18.2	18.4
4H	17.2	18.4	17.5	18.6	18.9	17.2	18.3	17.5	18.6	18.8
6H	17.6	18.7	17.9	18.9	19.2	17.2	18.3	17.5	18.6	18.8
8H	17.7	18.7	18.0	19.0	19.3	17.1	18.2	17.5	18.5	18.8
12H	17.7	18.7	18.0	19.0	19.3	17.1	18.1	17.4	18.4	18.7
4H 2H	16.0	17.1	16.3	17.4	17.6	15.9	17.1	16.2	17.3	17.5
3H	17.2	18.2	17.5	18.5	18.8	17.2	18.2	17.5	18.5	18.8
4H	17.8	18.7	18.2	19.1	19.4	17.7	18.7	18.1	19.0	19.3
6H	18.3	19.1	18.7	19.5	19.8	17.8	18.6	18.2	19.0	19.3
8H	18.4	19.2	18.8	19.5	19.9	17.8	18.5	18.2	18.9	19.3
12H	18.5	19.2	18.9	19.5	19.9	17.7	18.4	18.1	18.8	19.2
8H 4H	17.9	18.7	18.4	19.1	19.4	17.9	18.6	18.3	19.0	19.4
6H	18.6	19.2	19.0	19.6	20.0	18.0	18.6	18.4	19.0	19.4
8H	18.8	19.3	19.2	19.7	20.2	17.9	18.5	18.4	18.9	19.4
12H	18.8	19.3	19.3	19.7	20.2	17.9	18.4	18.4	18.8	19.3
12H 4H	17.9	18.6	18.3	19.0	19.4	17.9	18.6	18.3	18.9	19.3
6H	18.5	19.1	19.0	19.5	20.0	18.0	18.5	18.4	19.0	19.4
8H	18.7	19.2	19.2	19.7	20.1	17.9	18.4	18.4	18.9	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.6					+ 0.5 / - 0.5				
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 0.8 / - 0.8					+ 0.7 / - 0.7				

CIE Pub.117, 3610 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.5$)

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

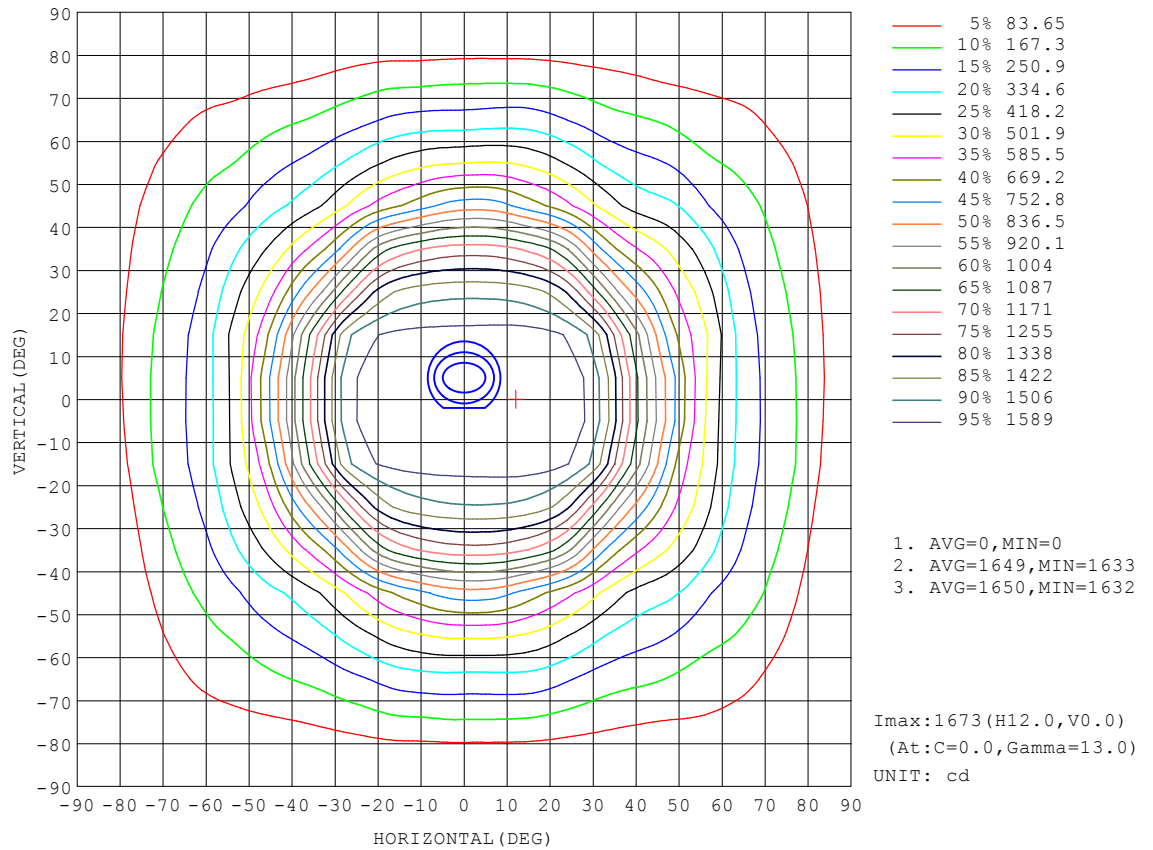
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	49	44
0.80	76	66	59	75	65	59	73	65	59	53
1.00	83	74	68	82	73	68	80	74	67	61
1.25	90	81	75	88	80	75	86	79	74	68
1.50	94	86	80	93	85	80	90	84	79	72
2.00	100	93	88	98	92	87	95	90	85	78
2.50	103	97	92	101	95	91	98	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

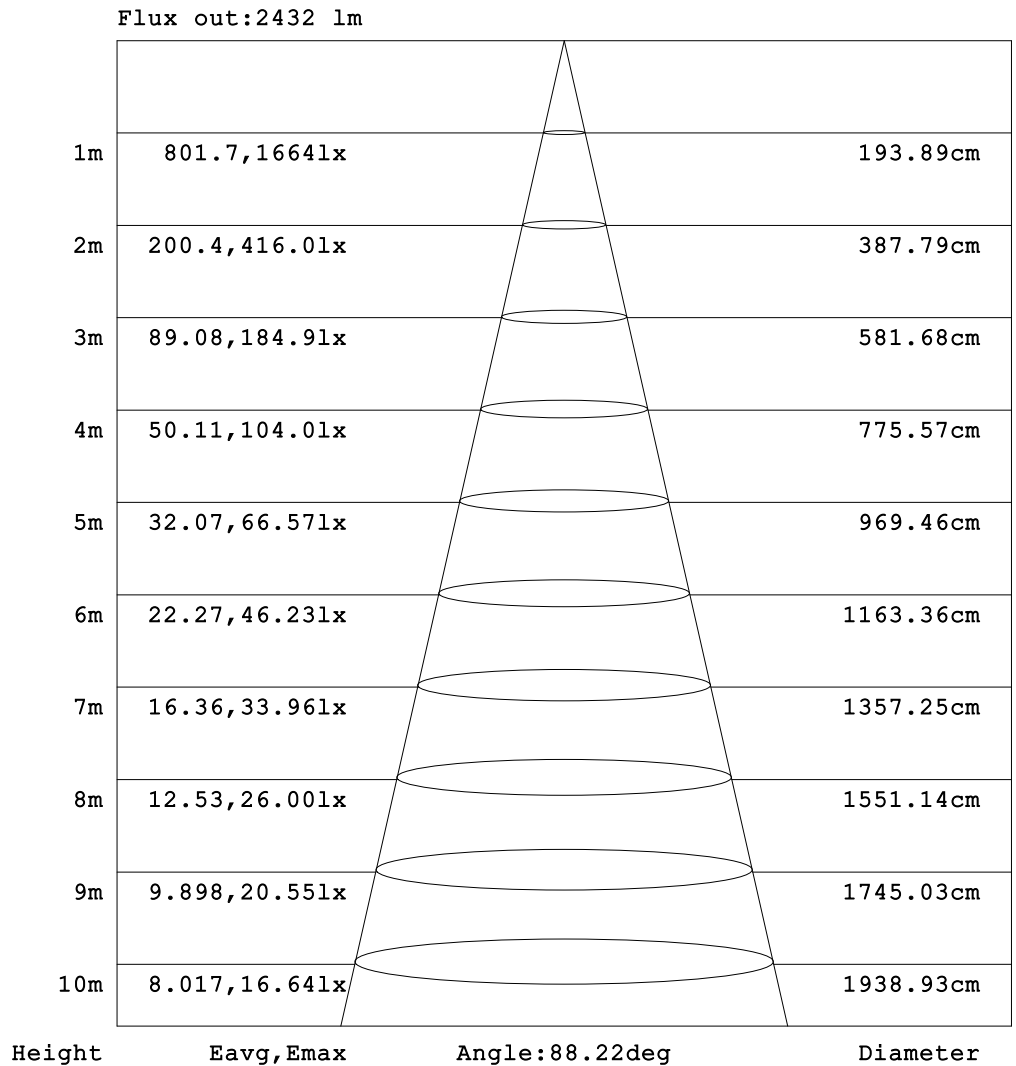


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

AAI Figure

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



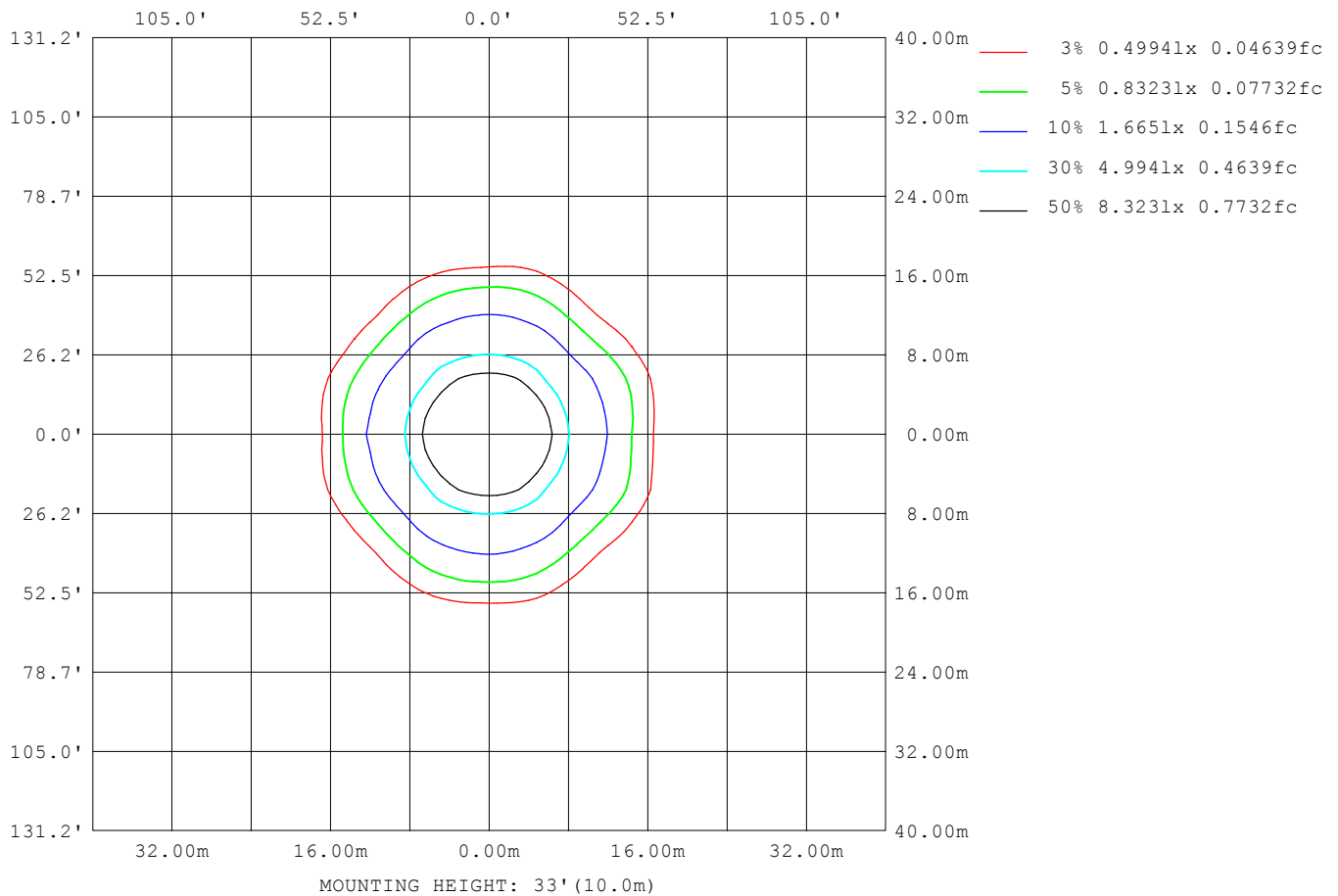
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

ISOLUX DIAGRAM

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

LED Avg.L Report

Test:U:221.50V I:0.1329A P:27.335W PF:0.9377 Freq:49.99Hz Lamp Flux:3609.72x1 lm		
NAME: GLM-SPL12030-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

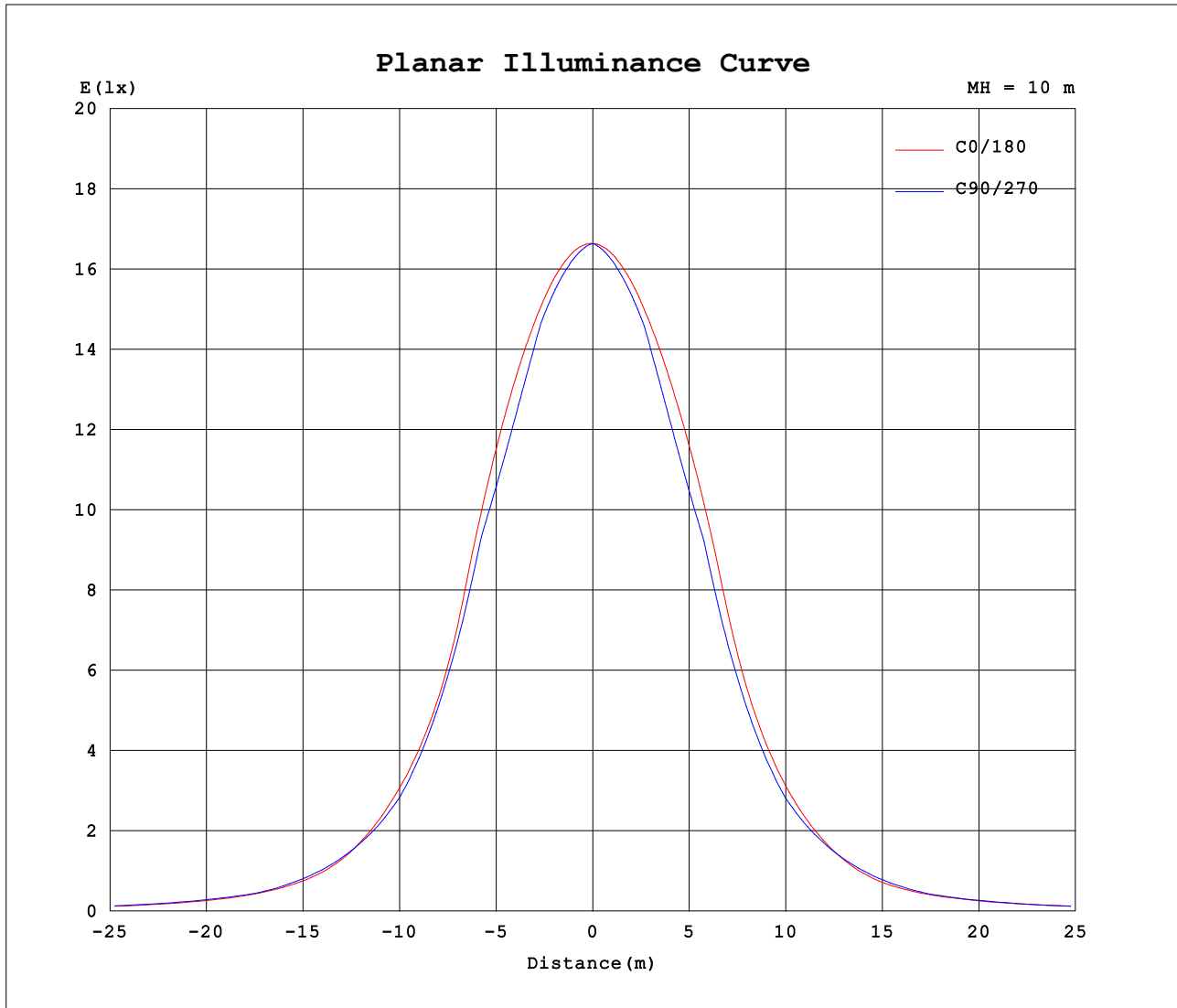
AvgL	cd/m2
L_0~180 (65) av	1944
L_0~180 (75) av	1974
L_0~180 (85) av	1016
L_90~270 (65) av	2052
L_90~270 (75) av	1740
L_90~270 (85) av	0
L_45 (65) av	1780
L_45 (75) av	1449
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-08-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks:

